

"Déjà Vu All Over Again"
The Disappointing Health
Status
of Canadian Op APOLLO
(Afghanistan/SW Asia)

Returnees
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Acknowledgements

- Mr. Terry Humeniuk
- Col Ken Scott
- LCol Henry Matheson
- CF members who participated





Rationale

- Following certain deployments, CF members have an increased risk of:
 - Mental distress <u>and</u> diagnosable mental illness
 - Medically unexplained physical symptoms ["MUPS," or "Gulf War Syndrome"]
- Numerous prevention strategies have been undertaken...

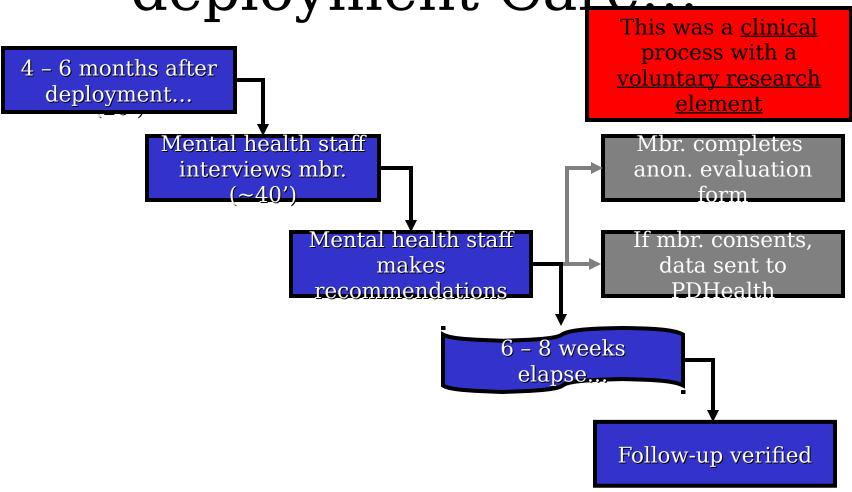
...when they fail, will early intervention help?

• Depression, pr drinking: YES • PTSD, M At best, tial ne po enefits are mod And harm





In Response to Previous Deficiencies in Postdeployment Care...



Sample Characteristics

- 95% male
- Ave. age = 34
- 40% Army, 40% Navy, 20% Air Force
- Ave. years in CF = 14
- Ave. number of previous deployments =
 2.6
- Interviewed an average of 156 (SD=81) days after return
 - NB: Army done 45 days earlier than others





The Deployment Experience

- Land:
 - 1st CF ground forces combat mission since Korean War
 - Fatal friendly fire incident (first combat fatalities since Korean War)
 - "Rustic" conditions
- Sea: Maritime blockade
- Air: Strategic and tactical airlift





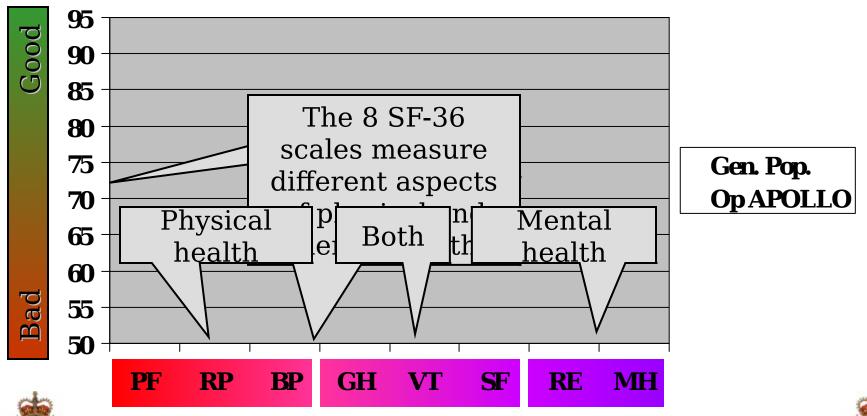
Instruments

- SF-36 Health Survey:
 - Health-related quality of life
- PRIME-MD PHQ:
 - Symptoms, mental illness, stressors
- [CF Short Mississippi Scale:]
 - Proved invalid for PTSD phenomenology



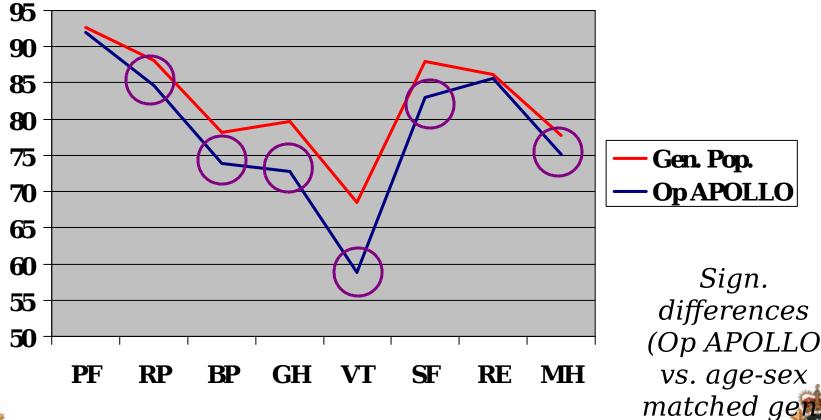


SF-36 Health Survey Results





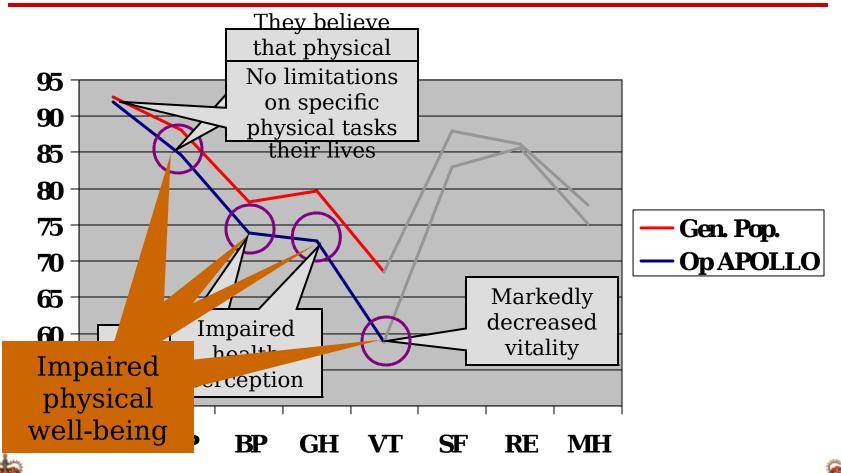
SF-36 Health Survey Results





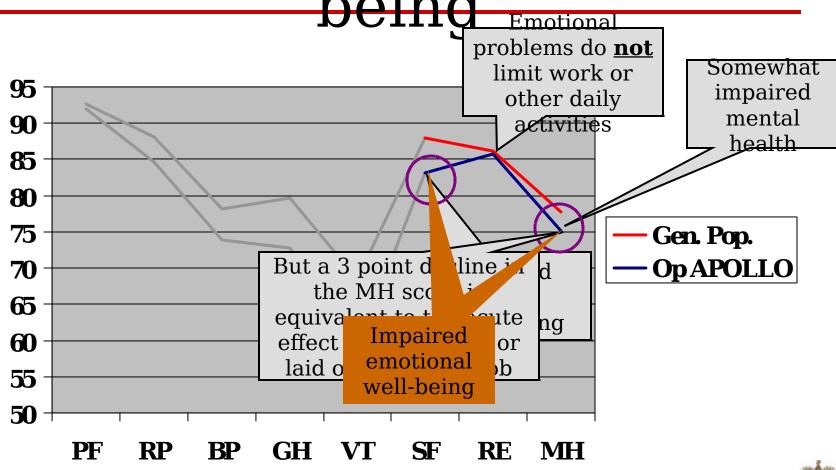
pop.)

SF-36: Physical Well-being





SF-36: Emotional Well-

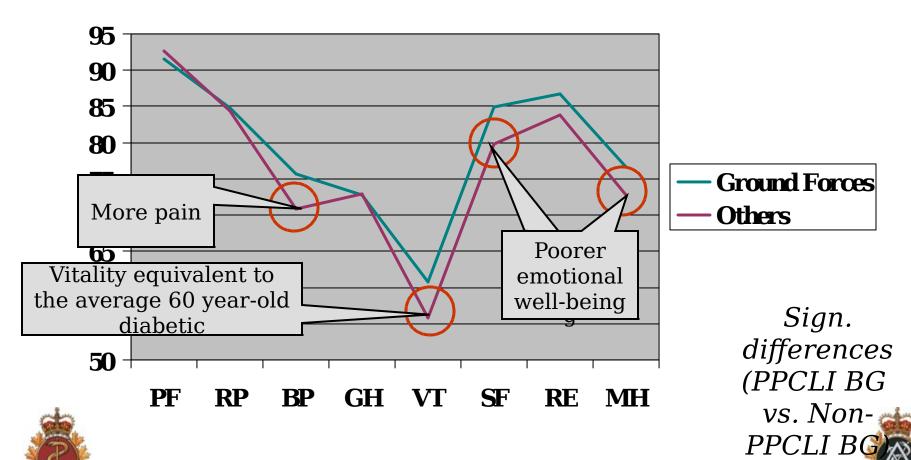






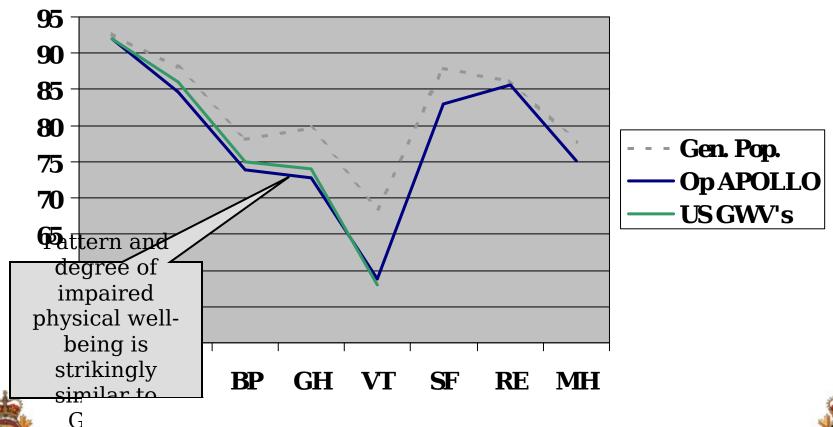
SF-36 Health Survey Results:

Ground Forces vs. Others



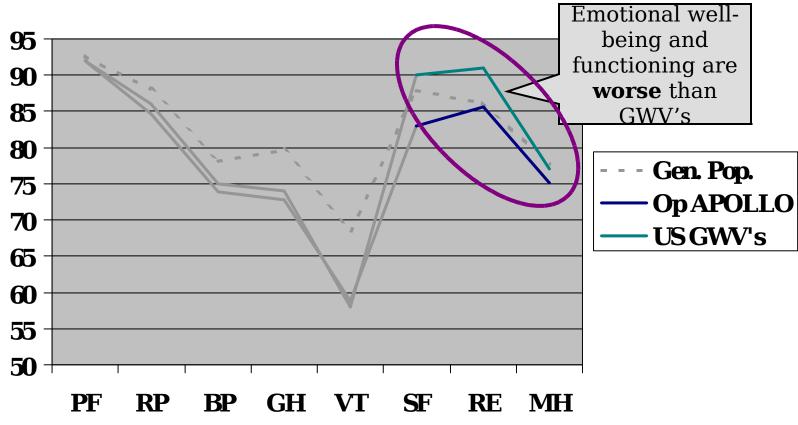
Understanding and Caring / Compréhension et Bienveillance

SF-36: Comparison with US Gulf War Veterans (GWV's) (6 years post-conflict)





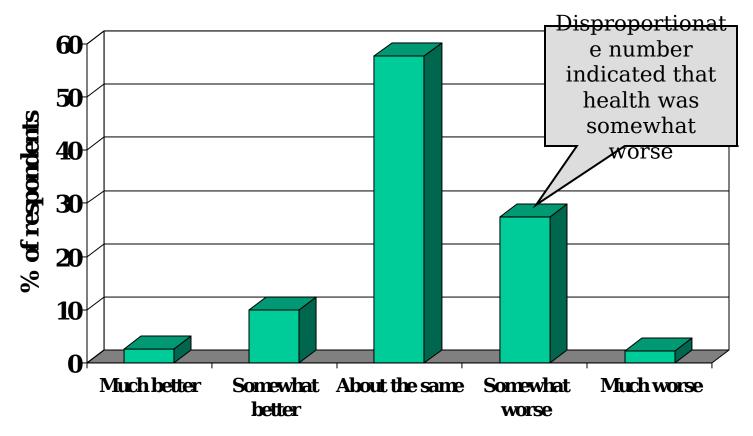
SF-36: Comparison with US Gulf War Veterans







Compared to one year ago, how would you rate your health in general now?



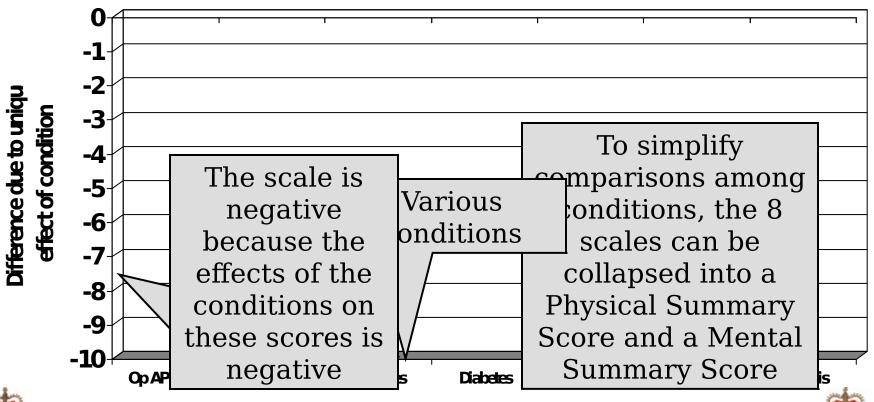




Other Reasons to Believe That Some of This Is a Deployment Effect

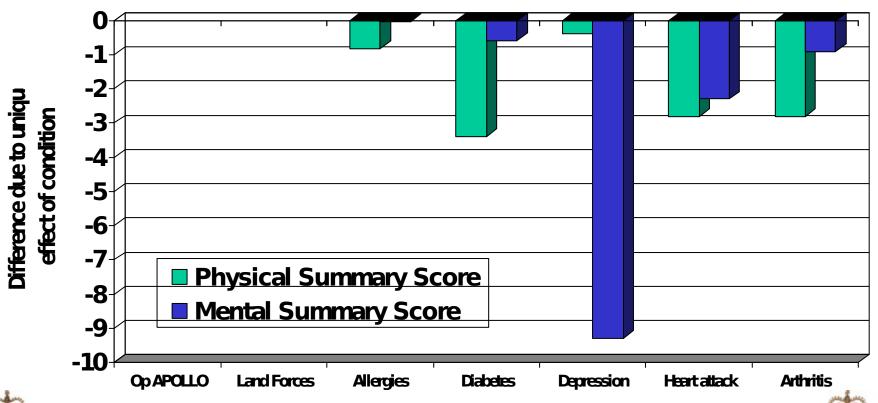
- Data from other surveys (Goss Gilroy, PERSTEMPO, Health and Lifestyle) suggest that health of CF members is **poorer than that of the general population**, but...
 - The magnitude of those differences was smaller
- Deployment experiences of some were of the sort expected to cause problems

The Unique Effect of Various Conditions on SF-36 Summary Scores



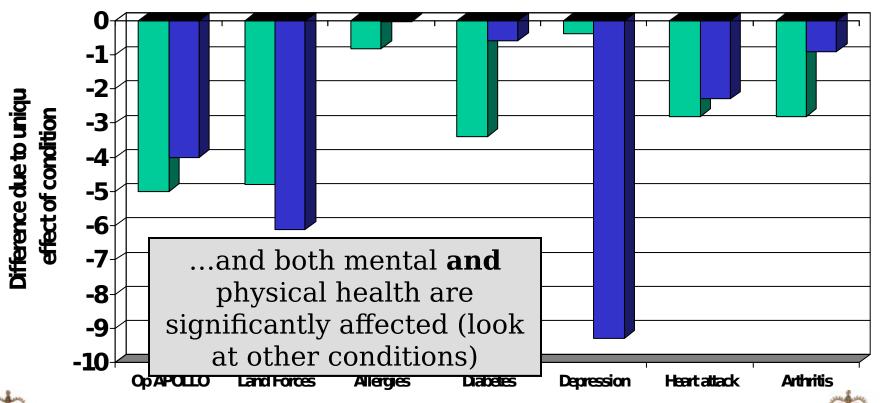


The Unique Effect of Various Conditions on SF-36 Summary Scores



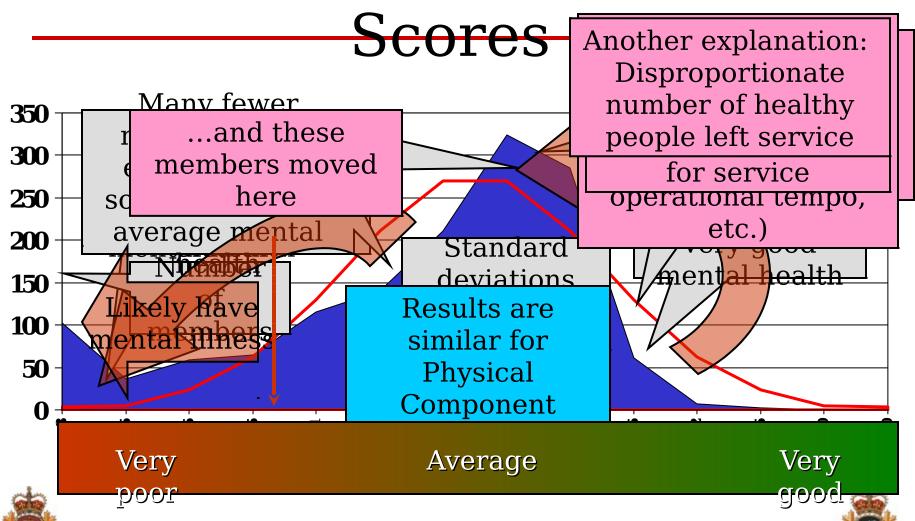


The Unique Effect of Various Conditions on SF-36 Summary Scores

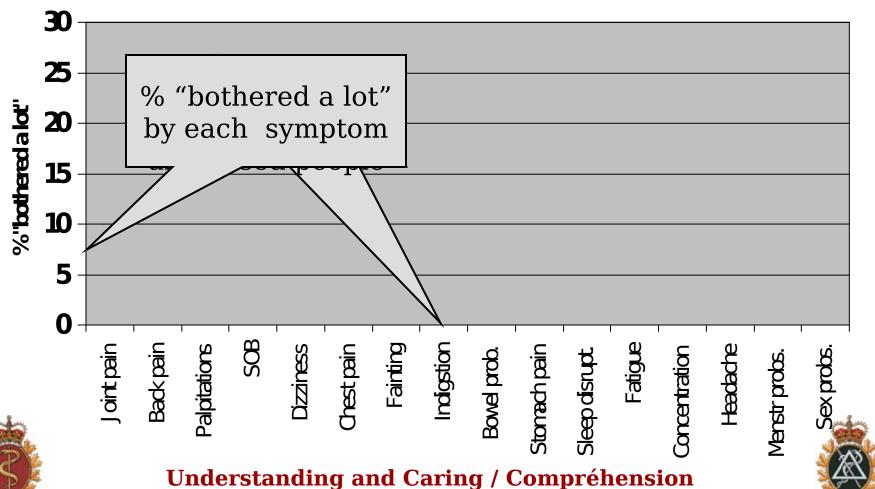




Observed Distribution of SF-36 Mental Summary

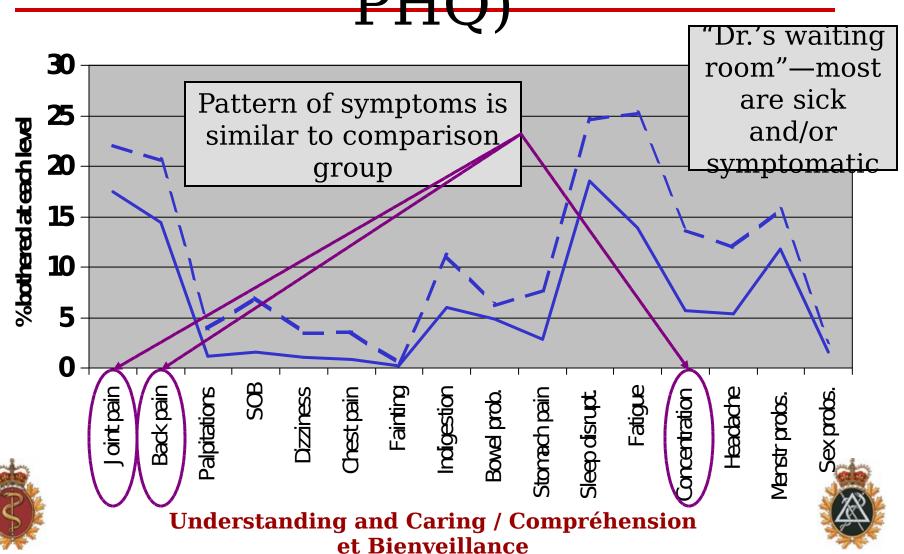


Physical Symptoms from Patient Health Questionnaire (PHQ)

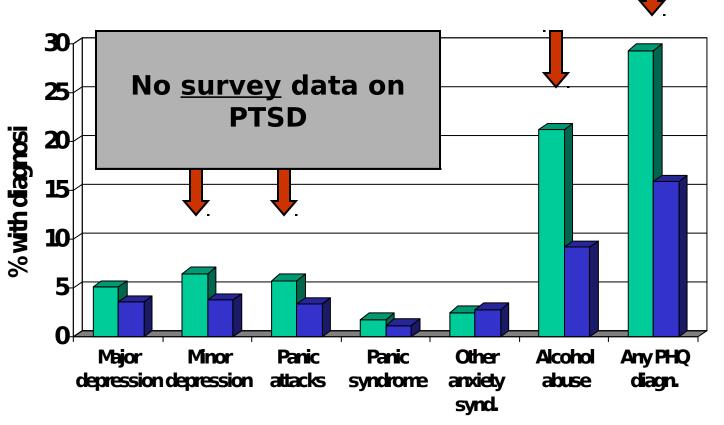


et Bienveillance

Physical Symptoms (from



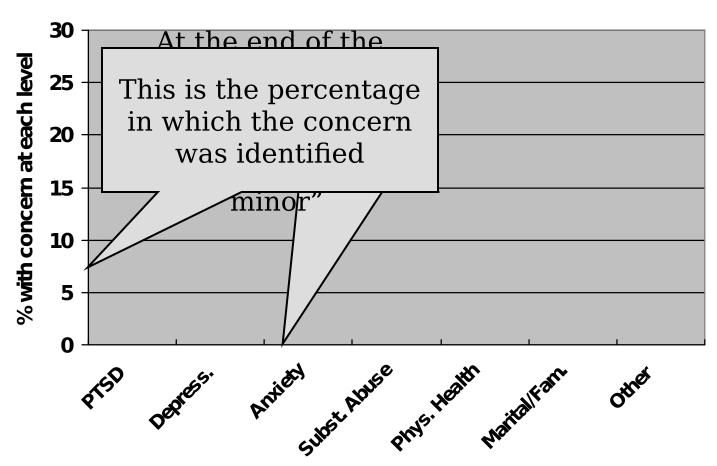
PHQ Diagnosis: Land Forces vs. Others







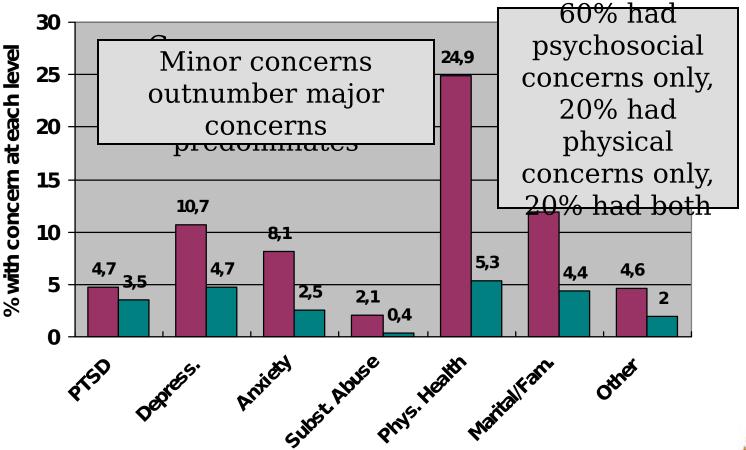
Interviewers' Concerns







Interviewers' Concerns







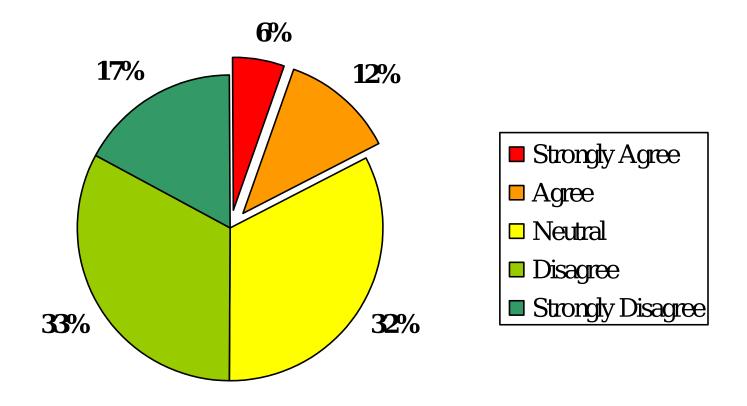
Participant Evaluations

- Participants found this process to be:
 - Comprehensive
 - Sensitive
 - Helpful





"I am concerned that medications, vaccinations, chemicals, or toxins that I was exposed to in preparation for or during my deployment may have harmed my health."







Limitations

- Preliminary analysis
- Response rate 'only' ~72%
- Data from a single point in time
- Lack of pre-deployment data
- Lack of more objective data on PTSD symptoms
- Based on self-reported symptoms
- Lack of data on final diagnoses



Key Findings

- This enhanced post-deployment screening was very successful in identifying members with problems
- Those with problems have been referred for individualized care
- Members evaluated the program very favourably





Key Findings

- Compared to general population:
 - Significantly and globally reduced physical and mental well-being
 - Likely a somewhat higher rate of diagnosable mental illness
- Some, but not all, of this difference is likely a <u>deployment effect</u>...
 - ...so current countermeasures have not been as effective as we had hoped



Key Findings

- Physical and mental health is similar to or worse than US Gulf War Veterans
- Health of Army participants is worse than others
- No evidence of new symptom syndrome or illness
- Findings are consistent with typical post-deployment health effects



Questions?

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- Op APOLLO Report and other materials:
 - http://hr.ottawahull.mil.ca/health/information/op_health/op_apollo/e ngraph/op apollo home e.asp



